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 TI Manufacture of thermosetting reactive ***microgels*** for tough films
 and coatings
 IN Yamazaki, Shinsuke; Shiozawa, Kimihide
 PA Agency of Industrial Sciences and Technology, Japan; Toyo Ink Mfg. Co.,
 Ltd.
 SO Jpn. Kokai Tokkyo Koho, 6 pp.
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 DT Patent
 LA Japanese
 IC ICM C08F020-12
 ICS C08F002-30; C08F002-44; C08F020-12
 CC 42-10 (Coatings, Inks, and Related Products)
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 63162704	A2	19880706	JP 1986-308254	19861226
	JP 04074363	B4	19921126		
PRAI	JP 1986-308254		19861226		

AB The title ***microgels*** are prepd. by emulsion-polymn. of lower
 alkyl (meth)acrylate in the presence of <5% (based on overall monomer)
 monofunctional monomer, 1-5% phenolic resin or aminoplast crosslinking
 agent, and oligoacrylate reactive ***emulsifier*** contg. .gtoreq.2
 (meth)acryloxy groups. A 60:40:2 Et acrylate-Me methacrylate-glycidyl
 methacrylate mixt. was emulsion-polymd. in the presence of 2%
 tetramethylolated bisphenol A (I), Newfrontier A229E reactive
 emulsifier, and a redox initiator in water, cast on an Al foil,
 and baked at 120.degree. for 30 min to give a film with tensile strength
 200 kg/cm2 and elongation 31% compared with 95 and 351, resp., in the
 absence of I. The emulsion polymn. mixt. also formed a baked
 coating (170.degree., 30 min) on tinplate, with pencil hardness 2H-3H.
 ST phenolic resin crosslinker acrylic coating; aminoplast crosslinker
 reactive acrylic ***microgel***
 IT Coating materials
 (acrylic reactive ***microgels***)
 IT Crosslinking agents
 (phenolic resins and amino resins, for reactive acrylic
 microgels)
 IT Polymerization
 (emulsion, acrylic, for reactive ***microgel*** manuf.)
 IT 118605-42-8 118650-60-5 123551-56-4 123589-29-7
 RL: USES (Uses)
 (reactive ***microgels*** , for tough films and coatings)

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